



PB-003-001643

Seat No. _____

B. Sc. (Sem. VI) Examination

March / April - 2020

**Z-603 : Reprod. Physi., Embryology,
Env. Pollu. & Ecology
(Old Course)**

Faculty Code : 003

Subject Code : 001643

Time : $2\frac{1}{2}$ Hours]

[Total Marks : **70**

Instructions : (1) Draw neat and labeled diagram wherever necessary.
(2) Numbers to the right side indicate full marks of the questions.

1 Answer the following Questions : **20**

- (1) What is Ecosystem?
- (2) What is placenta?
- (3) Which cells provide nourishment to spermatozoa?
- (4) How many pairs of somite are present in 24 hours chick embryo?
- (5) Define Food Chain.
- (6) Name the first secretion of milk in human.
- (7) _____ is full form of B.O.D.
- (8) Define fertilization?
- (9) River water mixes with seawater is known as _____
- (10) Define lactogenesis
- (11) Explain Oceanic Island.
- (12) Give the location of corona radiata in human egg cell
- (13) Define population dynamic

(14) How much percentages of oxygen present in atmospheres?

(15) Regeneration in lizard tail is example of _____ type of regeneration.

(16) Erosion is which type of pollution?

(17) In _____ layer Ozone layer is situated?

(18) _____ heavy metal is a source of air pollution?

(19) According to Zoogeography India is included in _____ region.

(20) First trophic level of organisms in a terrestrial ecosystem is known as _____

2 (a) Write any three out of six : **6**

- (1) Regeneration in Coelenterate.
- (2) Explain significance of artificial parthenogenesis.
- (3) Explain significance of fertilization.
- (4) Gastrula stage in chick.
- (5) What is Natality?
- (6) Explain Migration in Population Ecology.

(b) Answer any three out of six : **9**

- (1) Describe Oxygen Cycle
- (2) Structure of mammalian ovum.
- (3) Neanderthal man.
- (4) Java man
- (5) Structure of chick egg
- (6) Short note on Galapagos island

(c) Answer any two out of five : **10**

- (1) Structure and function of mammary gland.
- (2) Draw and labeled 24 hrs chick embryos.
- (3) Structure and function of mammalian ovary.
- (4) Describe Soil Pollution.
- (5) Oriental region.

3 (a) Answer any three out of six : 6

- (1) Continental Island, Shrilanka.
- (2) Food Chain of Pond ecosystem.
- (3) Future prospective of man.
- (4) Short note on food web.
- (5) Describe area pellucida
- (6) Define population dynamics.

(b) Answer any three out of six : 9

- (1) Green House Effect.
- (2) Carbon cycle.
- (3) Palearctic region.
- (4) J Shaped and K shaped curve
- (5) 32 hrs of chick embryo.
- (6) Water pollution.

(c) Answer any two out of five : 10

- (1) Structure and function of mammalian sperm.
- (2) Draw and labeled 72 hrs chick embryos.
- (3) N₂ Cycle
- (4) Placentation as per historical aspects.
- (5) Air pollution.
